

AIM Ann Report  
1892 to 1893

# ANNUAL REPORT

OF THE

# Auckland Institute

AND

# • MUSEUM •

For 1892-93.

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Adopted at the Annual Meeting held February 20, 1893.

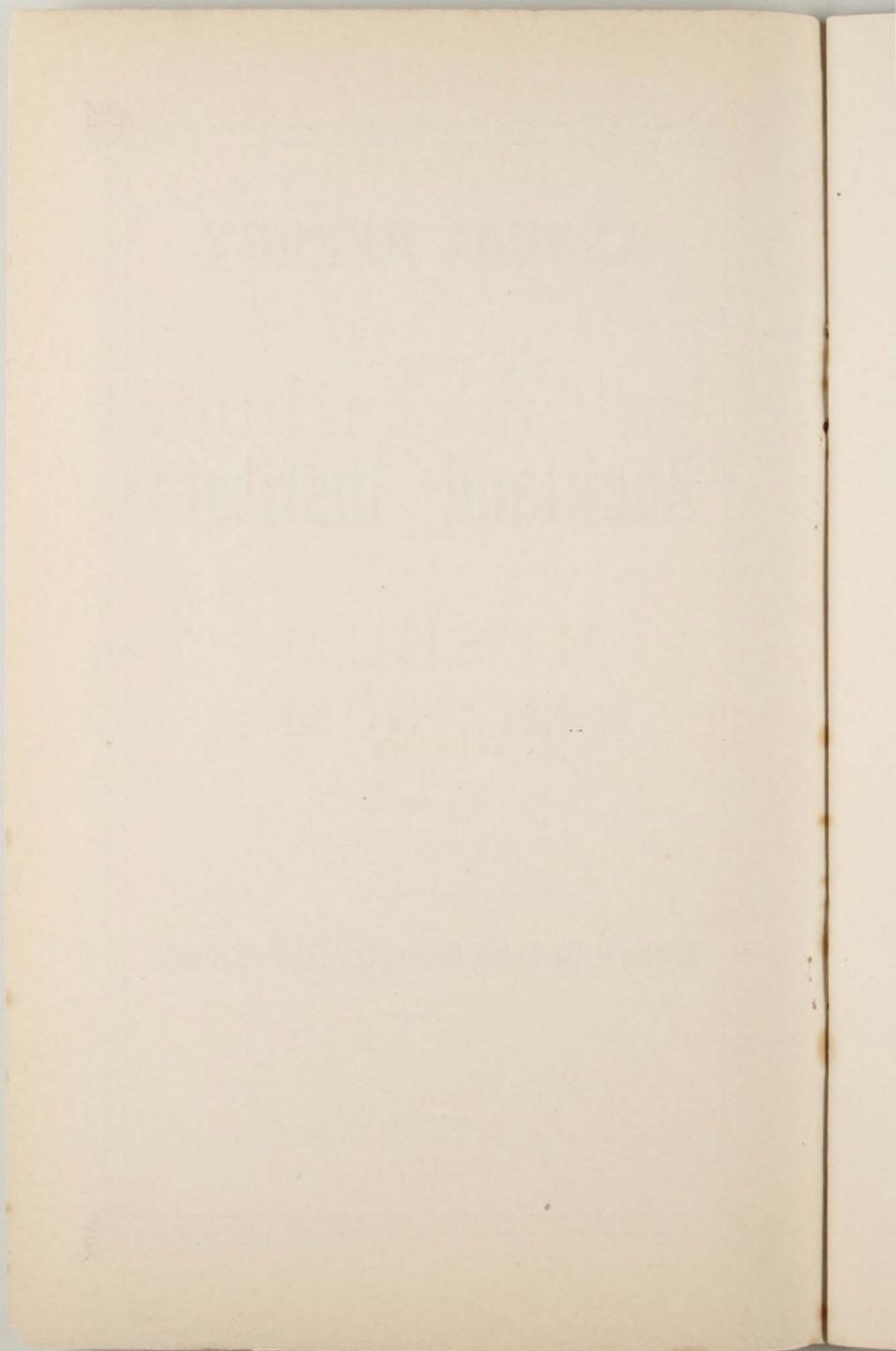
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Auckland :

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MDCCXCIII.

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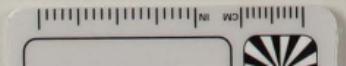
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Auckland:

WILSONS AND HORTON, GENERAL PRINTERS, HERALD OFFICE, QUEEN AND WYNDHAM STS.

MDCCXCIII

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OF THE

AUCKLAND INSTITUTE.

—HK—

**President:**

PROFESSOR POND.

**Vice-Presidents:**

PROF. F. D. BROWN, F.C.S. J. STEWART, ESQ., C.E.

**Council:**

BERRY, W. ESQ.	PURCHAS, REV. A.G., M.R.C.S., E.
COOPER, C., ESQ.	ROBERTON, E., M.D.
MUELLER, G., ESQ.	SMITH, T. H., ESQ.
PEACOCK, T., ESQ.	THOMAS, PROF. A. P. W., F.L.S.
POND, J. A., ESQ., F.C.S.	UPTON, J. H., ESQ.

WITHY, E., ESQ.

**Trustees:**

MACKENZIE, E. A., ESQ.	SMITH, S. P., ESQ., F.R.G.S.
PEACOCK, T., ESQ.	

**Secretary and Treasurer:**

T. F. CHEESEMAN, ESQ., F.L.S., F.Z.S.

**Auditor:**

W. GORRIE, ESQ.

# AIM Ann Report 1892 to 1893

THE FOLLOWING

## Magazines and Periodicals

ARE CIRCULATED AMONG THE MEMBERS :

Quarterly Journal of Microscopical Science  
The Ibis  
Nature  
Geological Magazine  
Lancet  
Scientific American  
The Academy  
Knowledge  
Botanical Magazine  
Annals of Botany  
Gardeners' Chronicle  
Chemical News  
Engineering  
Science Gossip  
Electrical and Telegraphic Review  
Annals and Magazine of Natural History  
The Philosophical Magazine  
American Journal of Science  
The New Zealand Medical Journal

## REPORT OF THE COUNCIL.



**T**HE Council have the pleasure of submitting to the members their Twenty-fifth Annual Report upon the progress and general condition of the Institute.

**Members.**—The number of members on the register on the 1st of February, 1893, was 187, of which 13 are life members, and 174 annual subscribers. The total number of new members elected during the year has been 15. On the other hand, 23 names have been withdrawn—three from death, seven from resignation, and 13 from non-payment of subscriptions for two consecutive years. There has thus been a net decrease of eight during the year. The recent improvement in the condition and prospects of the colony induces the Council to hope that the number of members will in the future show a regular and satisfactory increase. In keeping up a Museum for the instruction and amusement of the public, the Institute is performing a work which, in other parts of New Zealand and in Australia, is solely made a charge upon the public funds. The Council therefore feel that the Institute deserves more support from those who are able to afford it, and trust that the present members will use their influence to introduce new subscribers.

**Finance.**—The balance-sheets appended to the report give full information respecting the financial position of the Society, but a brief synopsis will doubtless be useful to the members. The total income credited to the General Account has been £2,305 13s. 9d., but this includes a sum of £1,500 withdrawn from investment to meet the cost of the new addition to the Museum, so that the ordinary income may be stated at £805 13s. 9d. Last year the amount was £736 10s. 7d. The interest on the invested funds of the Costley bequest has been £482 5s., and the Museum Endowment has yielded in rents and interest £162 11s. 9d. The members' subscriptions amount to £133 7s., a sum slightly under that realised last year. The total expenditure has been £2,295 15s. 9d.; but, as in the case of the income, this sum should be divided into two portions—one representing the ordinary expenditure incurred in the maintenance of the Institute and Museum, amounting to £763 2s., the other the cost of the new hall and its fittings, equalising £1,532 3s. 9d. Part of this, it will be remembered, was shown on last year's balance-sheet as an overdraft at the bank. The position of the invested funds of the Institute may

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be regarded as satisfactory. The total amount at the present time is £11,370 10s. 10d. As previously stated, £1,500 have been withdrawn during the year; but, on the other hand, £1,418 1s. have been added, so that the reduction since the last annual meeting is very small indeed. The Council consider that the members are to be congratulated on the fact that, notwithstanding the large cost of the new building, every liability in connection with it has been discharged, and that yet the capital of the Institute barely shows an appreciable reduction.

**Museum Endowment.**—There is but little to report under this head. The second payment of £1,000 on account of the Waikanae Block has been received, and placed at fixed deposit, together with the proceeds of the sale of the Patutahi Block, to hand just before the last annual meeting. A few small sales have also been effected, but, as a rule, the adoption of the perpetual lease system makes it difficult to dispose of country lands at satisfactory prices.

**Meetings.**—Nine meetings have been held during the year, at which the following papers have been read and discussed:—

1. Introductory Address:—By the President, Prof. F. D. BROWN.
2. On the Occurrence of Granite and Gneissic Rocks in the King Country:—By J. PARK, F.G.S.
3. Evolutionary Ethics:—By the Rev. J. BATES.
4. The Aryans in their Primitive Home:—By Prof. POND.
5. On the Occurrence of the Luth or Leathery Turtle in New Zealand:—By T. F. CHEESEMAN, F.L.S.
6. On a new Wave Machine:—By Prof. F. D. BROWN.
7. On some Peculiarities of the Maori Language:—By F. D. FENTON.
8. The Effect of the Introduction of Deer on the New Zealand Forest:—By the Rev. P. WALSH.
9. Exhibition of a Model Geyser, designed by Mr. C. Malfroy:—By J. MARTIN.
10. Maori Nomenclature:—By Judge T. H. SMITH.
11. An Army of Defenders—a popular account of Metchnikoff's Discoveries concerning the power of resistance against Disease:—By Prof. A. P. THOMAS.
12. Sanitation and Ventilation, as required in a Modern House:—By E. WITHY.
13. New Species of Araneæ:—By A. T. URQUHART.

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14. New Species of Ccleoptera :—By Captain BROUN.
15. The Causes of Fires on Shipboard :—By J. C. FIRTH.
16. Notice of a Gigantic Sunfish stranded at Gisborne :—By Archdeacon W. L. WILLIAMS.

Most of the above will be printed in the 25th volume of "Transactions of the New Zealand Institute," now being sent to press.

**Museum.**—The number of visitors to the Museum has largely increased during the year. On Sunday afternoons a register has been kept by the janitor, showing that 10,528 persons have entered the building on that day, being an average of 202 for each Sunday. On week-days the visitors have been occasionally counted, and, although an accurate estimate cannot be given, it is believed that the average attendance has been about 110. Excluding certain days, on which the Museum was closed for cleaning, etc., this would give an attendance of 32,780 on week-days, or a total of 43,308 for the year.

In last year's report the Council fully stated the reasons that had induced them to enlarge the Museum. As the addition is now completed and opened to the public, it is desirable to give the members some information respecting its construction and cost, and the use to which it has been applied. It consists of a hall, 100ft. in length by 50ft. in breadth, placed on the south side of the main building, and at right angles to it. It is substantially built of brick, with concrete floor, and is roofed with iron and glass, being practically fireproof. The contract for its erection was secured by Mr. J. J. Holland, for the sum of £1,035, afterwards increased by a few extras to £1,074 17s. 6d. To this has to be added the architect's commission, the cost of the show-cases—always an expensive item in Museums—of the gas-fittings, of the renovation of the Maori war-canoe, and erection of the Maori house, together with the expenses incurred in suitably mounting and labelling the exhibits. These items amount in the aggregate to £457 16s. 3d., raising the total expenditure in connection with the building to £1,532 13s. 9d.

As the members are aware, the new hall has been devoted to the exhibition of the ethnological portion of the Museum collections, and particularly to that part illustrating the habits and mode of life of the Maori race. By following this course, a considerable number of large exhibits, many of which were necessarily scattered here and there in the old building—thus seriously interfering with any systematic arrangement of the contents—have been brought together and arranged on a definite plan. The main building has been freed from a mass of heterogeneous articles, while the Maori collection, now by far the most complete in the colony, has been

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suitably displayed and exhibited. With the intention of rendering the collection as useful as possible to visitors, the whole of the specimens in the show-cases have been mounted on suitable stands. Each article is placed in a position which will allow it to be readily seen and examined, and is provided with a full descriptive printed label. The labour expended in doing this has been great, but it is satisfactory to know that the result has met with the approval of those visitors qualified to judge. The building was formally opened to the public by a conversazione of members and their friends, held on October 29th. The Council have to thank His Excellency Lord Glasgow for kindly presiding on the occasion.

So much of the Curator's time has been taken up with the arrangement of the ethnological collections, that it has been impossible to make any changes of importance in the main building. It is intended, however, to entirely re-arrange the contents at an early date, and it is hoped that the additional space now available will allow many improvements to be made in the arrangement of the specimens, and in the mode of displaying them. A considerable number of additions and donations have been received during the year, a full list of which will be found appended to the report.

**Library.**—Few additions have been made to the Library during the year, beyond the usual exchanges and presentations from foreign societies. The Institute still continues to subscribe for the publications of the leading English scientific societies, as also for several scientific periodicals and magazines, a list of which will be found on another page. The Council regret that they have been unable to provide better accommodation for the Library, which is now in a very crowded condition. Not only is there a lack of shelving room for any additions that may be made, but the table-room and other conveniences for readers are most inadequate. A new Library Catalogue is also urgently wanted, and would be much appreciated by those members desiring to make frequent use of the books.

**Conclusion.**—In concluding the report, the Council wish to tender the thanks of the Institute to Messrs. W. K. Graham and Co., and Mr. Hugh Craig, for their kind services as agents of the Institute in London and San Francisco. They also trust that the public generally will afford that support and encouragement which is certainly due to an institution whose chief aim is to secure the advancement of knowledge, and the diffusion of scientific and practical information.

The Treasurer in Account with the Auckland Institute,

FEBRUARY 17, 1892, TO FEBRUARY 14, 1893.

	£	s.	d.		£	s.	d.
Annual Subscriptions .. . . .	133	7	0	Balance due Bank of New Zealand, Feb. 17, 1892 ..	751	3	2
Rents .. . . .	27	10	0	Books, Periodicals and Magazines, Binding ..	81	14	7
Interest from the Costley Bequest .. . .	482	5	0	Additions to Museum .. . . .	38	15	0
Rents and Interest transferred from Museum Endow- ment Account .. . . .	162	11	9	Museum Requisites .. . . .	44	16	4
Capital withdrawn to meet the cost of new Hall .. . .	1,500	0	0	Printing, Advertising, Insurance, Gas, Stationery, Postages, and other expenses .. . . .	136	10	0
				Salaries .. . . .	391	4	0
				Paid on Account of New Building .. . . .	781	10	7
				Expenses of Conversazione .. . . .	23	18	6
				Land Tax .. . . .	25	0	0
				Interest charged on Overdraft .. . . .	15	18	7
				Miscellaneous .. . . .	5	5	0
				Balance in Bank of New Zealand, Feb. 14, 1893 ..	9	18	0
	£2,305	13	9		£2,305	13	9

FEBRUARY 16, 1893.

T. F. CHEESEMAN, TREASURER.

Examined and found to be correct,

JOHN REID, AUDITOR.

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MUSEUM ENDOWMENT ACCOUNT

FEBRUARY 17, 1892, TO FEBRUARY 14, 1893.

	£	s.	d.		£	s.	d.	
Balance in Bank of New Zealand, Feb. 17, 1892				Insurance, Agency, and other Expenses	..	10	3	3
(Sales of Lands) .. .. ..	425	1	5	Crown Grant Fee returned to Receiver of Land				
Endowments Sold .. .. ..	1,063	3	7	Revenue .. .. ..		1	0	0
Rents of Endowments .. .. ..	77	1	1	Transferred to General Account .. .. ..		162	11	9
Interest on Investments .. .. ..	95	13	11	Lodged at Fixed Deposit in Bank of New Zealand ..	1,400	0	0	
Crown Grant Fee received in error .. .. ..	1	0	0	Balance in Bank of New Zealand, Feb. 14, 1893 ..	88	5	0	
	£1,662	0	0		£1,662	0	0	

FEBRUARY 16, 1893.

T. F. CHEESEMAN, TREASURER.

Examined and found to be correct,

JOHN REID, AUDITOR.

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Investments of the Auckland Institute.

	£	s.	d.
<b>COSTLEY BEQUEST—</b>			
On Mortgage on Freehold Security at 6 per cent.	..	4,000	0 0
On Mortgage on Freehold Security at 6½ per cent.	..	650	0 0
Deposited with the Industrial and Provident Building			
Society at 5 per cent. .. .. ..	1,050	0	0
At Fixed Deposit in various Banks .. .. ..	2,000	0	0
<b>NATHAN BEQUEST—</b>			
Deposited in Auckland Savings Bank .. .. ..	125	16	8
<b>MUSEUM ENDOWMENT—</b>			
On Mortgage on Freehold Security at 7 per cent. £900,			
Less £300 written off for depreciation .. .. ..	600	0	0
On Mortgage on Freehold Security at 7 per cent. .. .. ..	270	0	0
Deposited in Auckland Savings Bank at 5 per cent. .. .. ..	101	3	8
At Fixed Deposit in Bank of New Zealand .. .. ..	2,400	0	0
<b>INVESTMENT FUND FOR LIFE SUBSCRIPTIONS—</b>			
Deposited in Auckland Savings Bank .. .. ..	173	10	6
	<hr/>		
	£11,370	10	10
	<hr/>		

T. F. CHEESEMAN,  
TREASURER.

Documents examined and found to be in order,

JOHN REID,  
AUDITOR.

FEBRUARY 16, 1893.

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## ⇄ Additions ⇄ Donations ⇄

TO THE  
LIBRARY AND MUSEUM.

Parliamentary Papers and Reports; New Zealand Hansard for 1892; New Zealand Statistics; Hudson's Manual of New Zealand Entomology; Official Handbook of New Zealand. The New Zealand Government.

Annual Report of the Colonial Museum and Laboratory. The Director of the Geological Survey.

Journal of the Polynesian Society, Nos. I. to IV. The Society.

Statistics of Tasmania for 1891; Walsh's Tasmanian Almanac for 1893; Tasmanian Official Record for 1892. The Colonial Secretary, Tasmania.

Victorian Year-Book for 1891-92. The Government Statist, Victoria.

Proceedings of the Royal Society of Victoria, Vol. III., new series. The Society.

Publications of the Department of Mines, New South Wales, for 1892. The Department.

Journal and Proceedings of the Royal Society of New South Wales, Vol. XXV. The Society.

Reports of the Department of Agriculture, Queensland; Bailey's Lithograms of the Ferns of Queensland. The Department of Agriculture.

United States Consular Reports. The United States Government.

Insect Life, parts of Vols. IV. and V.; Illustrations of North American Grasses; The American Fauna, No. V. The United States Department of Agriculture.

Report of the Missouri Botanical Garden for 1891. The Missouri Botanical Garden.

Annual Report of the Museum of Comparative Zoology, Harvard, U.S.A. Prof. A. Agassiz.

Report of the Smithsonian Institution for 1890; Reports of the U.S. National Museum, Vols. XII. and XIII.; Bulletin of the Museum. The Smithsonian Institution.

Annual Report of the Public Museum of Milwaukee, U.S.A. The Museum.

Proceedings of the American Association for the Advancement of Science. The Association.

Annals of the Astronomical Observatory of Harvard College, U.S.A. Eight Vols. The Observatory.

Reports of the Californian State Mineralogist for the years 1885-90. The State Mineralogist.

Proceedings of the Nova Scotian Institute of Science, Vol. VII. The Institute.

Annual Report of the Geological Survey of Canada for 1888-89. The Director of the Geological Survey.

Monthly Reports of the Observatory of Rio Janeiro, Brazil. The Observatory.

Monatsbericht der Deutschen Seewarte. The Seewarte.

Symons's Monthly Meteorological Magazine. The Editor.

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Proceedings of the Royal Colonial Institute for 1891. The Institute.  
Bulletins of the Italian Entomological Society for 1891-92. The Society.  
Publications of the Malacological Society of Belgium for 1890. The Society.  
Twenty-six New Zealand Pamphlets. R. Church.  
Frontier Life in Auckland and Taransaki, by E. S. Brookes. The Author.  
The Colonial Gazette for 1841-42. Purchased.  
British Museum Catalogue of Birds, Vols. XVI., XVII., XX. Purchased.  
The Zoological Record, Vols. for 1890 and 1891. Purchased.  
Philosophical Transactions of the Royal Society for 1891; Proceedings, Nos. 300 to 315. Purchased.  
Transactions of the Chemical Society for 1891-92. Purchased.  
Quarterly Journal of the Geological Society for 1891-92. Purchased.  
Journal of the Royal Agricultural Society for 1891-92. Purchased.  
Journal of the Royal Geographical Society for 1891-92. Purchased.  
British Almanac and Companion, a complete set from the commencement to 1891. H. W. Tinne.  
Copy of the Sydney Gazette of date August 7, 1803; Manuscript of a Code of Laws in the Maori Language, adopted at a meeting held at Tuakau in 1857. C. Marshall.

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Skins of *Miro Traversii*, *Gerygone albifronsata*, *Anthornis melanocephala*, *Carpophaga chathamensis*, *Gallinago pusilla*, *Cabalus modestus*, *Phalacrocorax featherstoni*, and other Chatham Island birds; Skull of *Aphanapteryx*. Purchased.  
12 New Zealand Bird-skins. F. Combes.  
Skin of *Nesonetta Aucklandica*. R. Bethune.  
Moa Skeleton; Moa Feathers. In exchange from the Canterbury Museum.  
Black Petrel (*Macagueus Parkinsoni*). R. Holmes.  
Pied Stilt-Plover (*Himantopus leucocephalus*). R. Black.  
Morepork (*Spilogalax novæ Zealandiæ*). A. Wells.  
Skins of *Æstrelata* and other Petrels from the Kermadec Islands; Birds' Eggs from the Auckland and Campbell Islands. Captain Fairchild.  
Black Rat. H. F. Hunt.  
Water Snake (*Platurus seutatus*), washed up alive at Hokianga. J. Webster.  
Sea Snake (*Pelamys bicolor*), from Kandavu, Fiji. R. A. Fraser.  
Tree Lizard (*Hoplodactylus pacificus*). T. Boswell.  
Green Lizard (*Naultinus elegans*). A. Syms.  
Specimens of a large *Patella*, and other Shells from the Kermadec Islands. Captain Fairchild.  
New Zealand Shells. E. B. Moss, C. Spencer, Captain Farquhar, T. F. Cheeseman.  
Large Collection of North American Shells. In exchange from E. W. Roper.  
Vegetable Caterpillars. R. Fraser.  
*Mantis* sp. J. Munro.  
Collection of 225 Specimens of Butterflies from China. A. Bock.  
Specimen of *Peripatus novæ Zealandiæ*. Mr. Dawson.  
Specimens of Granite and Gneissic Rocks from the Upper Waipa. J. Park.  
Section of a Boulder from Whakarewarewa. J. McFadyen.  
Auriferous Quartz and Silver Ores from New South Wales. A. Trelease.  
Collection of Minerals and Ores from California. The Californian State Mining Board.  
Collection of New Zealand Ferns. Miss Clarke.  
Nine Rare Greenstones and other Ornaments; 24 Maori Stone Implements; three Wooden Fern Pounders. E. S. Brookes, jun.  
Collection of Stone Implements from the Chatham Islands, 29 specimens in all. S. Percy Smith.

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Stone Fishing-weight; three Stone Axes. J. Munro.  
Stone Fishing-weight; Carving from the front of a Pataka. J. Martin.  
Stone Axe. F. Morton.  
Three Stone Axes. P. Bligh.  
Stone Axe; small Stone Bowl. Mr. Stott.  
Hat made by Ngatiporou Natives from the leaves of Freycinetia. H. D. Johnson.  
Shield and Stone Axe from New Guinea. W. Black.  
Silver Coin. A. Simpson.  
Two Copper Coins. W. Smyth.  
Silver Coin. W. J. Payne.



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## LIST OF MEMBERS

For the Year Ending March 31, 1893.

[HONORARY AND LIFE MEMBERS DISTINGUISHED THUS\*].

Adams, J., B.A., Thames  
Aickin, G., Auckland  
Aitken, W., Auckland  
Aldis, Prof., Auckland  
Allen, T., Auckland  
Argall, W. H., Coromandel  
Arnold, C., Auckland  
  
Bagnall, L. J., Thames  
Bakewell, R. H., M.D., Auckland  
Baker, Rev. S. W., Auckland  
Ball, T., Onehunga  
Ball, W. T., Auckland  
Bartley, E., Devonport  
Bates, Rev. J., Devonport  
Bates, T. L., Newcastle, N.S.W.  
Batger, J., Auckland  
Beere, D. M., C.E., Gisborne  
Berry, W., Auckland  
Bourne, C. F., M.A., Auckland  
Brett, H., Auckland  
Brigham, J. M., Auckland  
Brock, A., Auckland  
Brookes, E. S., junr., Wharehine  
Broun, Capt. T., F.E.S., Drury  
Brown, Prof. F. D., Auckland  
Brown, H., Auckland  
Buchanan, J., Auckland  
Buchanan, W., Devonport  
\*Buckland, A., Auckland  
Buckland, W. F., Remuera  
Bull, G. W., Thames  
Burgess, E. W., Devonport  
Burton, Col., Lake Takapuna  
  
Cameron, R., Auckland  
Campbell, H., Auckland  
Campbell, J. L., M.D., Auckland  
Campbell, Rev. J., Ponsonby  
Carr, R. C., Remuera  
Cheal, F. E., Auckland  
Cheeseman, T. F., F.L.S., Auckland  
Ching, T., Parnell  
Choyce, H. C., Auckland

Clark, J. M., London  
Cochrane, W. S., Auckland  
Colbeck, Capt., Epsom  
Combes, F. H., Auckland  
Coom, J., C.E., Auckland  
Cooper, C., Auckland  
Cooper, T., Auckland  
Cowie, Right Rev. W. G., D.D.,  
Bishop of Auckland  
Cozens, G., Auckland  
Craig, E., Auckland  
Crauwel, R., Auckland  
Cruickshank, D. B., Auckland  
Cussen, L., Hamilton  
  
Darby, P. Auckland  
Davies, Rev. H. S., Northcote  
Davies, W., Whakatane  
Dawson, F. W. E., M.R.C.S., E.,  
Auckland  
Dignan, P. L., Auckland  
Dignan, Hon. P., Auckland  
Dufaur, E. T., Auckland  
  
~~Eastham, S., Devonport~~  
Edson, J., Devonport  
Ehrenfried, L., Auckland  
  
Farmer, J., London  
Fenton, F. D., Kaipara  
Fidler, W., Northcote  
Firth, J. C., Auckland  
Fowlds, G., Auckland  
Fox, Sir W., Auckland

Garlick, R., Auckland  
George, C. S., Auckland  
Girdler, Dr., Auckland  
Goldie, D., Auckland  
Goldsmith, E. C., Gisborne  
Gorrie, W., Auckland  
Grace, L. M., Taupo  
Graham, W. K., London  
Gray, A., Remuera

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Haines, C. H., M.D., F.R.G.S.,  
Auckland  
Haines, H., M.R.C.S., Auckland  
Hardie, J., Auckland  
Harding, S., C.E., Auckland  
Haszard, H. D. M., Auckland  
~~Hawtin, Hon. Col., Auckland~~  
Heinitz, R., Auckland  
Henton, J. S., Auckland  
Hesketh, E., Auckland  
Herbert, T., Parnell  
Hill, W. J., Auckland  
Hunt, R. R., Auckland  
Hunter, A. J., C.E., Auckland

Johnson, H. D., Te Aroha

Kenderdine, J., Auckland  
Kidd, A., Auckland  
\*Kirk, T., F.L.S., Wellington  
Kirker, J., Auckland  
\*Kitt, T. W., Auckland

\*Leaf, C. J., F.L.S., F.G.S., London  
Lennox, J. M., Auckland  
\*Lennox, N. G., Sydney  
~~Leys, T. W., Auckland~~  
Lusher, J. H., Auckland

MacArthur, J. P., London  
Mackenzie, E. A., Auckland  
Maclean, F. W., Auckland  
MacMillan, C. C., Auckland  
Mahoney, T., Auckland  
Mair, Capt. G., Foxton  
Mair, R., Whangarei  
Mair, Major W. G., Auckland  
Malfroy, C., Rotorua  
Martin, J., F.G.S., Auckland  
Masefield, T. T., Auckland  
\*Meinertzhagen, F. M., Napier  
McCullough, Hon. W., Auckland  
McLachlan, J. M., Auckland  
McLaurin, J., Auckland  
Mitchell, J., Auckland  
Moat, W. P., Mahurangi  
Moody, T. P., Kawakawa  
Morton, H. B., Auckland  
Morrin, T., Auckland  
Monro, H. A. H., Parnell  
Mueller, G., Auckland  
Munro, G. C., Clevedon  
Murdoch, D. L., Auckland  
Murray, T. L., Thames

Nathan, L. D., Auckland

Orchiston, W., Auckland  
Owen, G. B., Auckland

Park, Jas., F.G.S., Thames  
Paul, Rev. J. S., Onehunga  
Payton, E. W., Devonport  
Peacock, T., Auckland  
Plumley, E. A., Auckland  
Pond, J. A., Auckland  
Pond, Professor, Auckland  
Purchas, Rev. A. G., M.R.C.S., E.,  
Auckland  
Purchas, A. C., M.D., Auckland

Rechnagel, R., Thames  
Reed, J. R., Kawakawa  
Reid, J., Auckland  
Roberton, Dr., Auckland  
Rose, R., Auckland  
Russell, Jas., Auckland  
Russell, J. B., Auckland  
\*Russell, T., London

Sanders, C. W., Parnell  
Scheidel, Dr., Thames  
Scott West, Rev. R. J., Mt. Eden.  
Seddon, W., Rotorua  
Seegner, C., Auckland  
Shaw, H., Auckland  
Shrewsbury, H., Parnell  
Simpson, F., Whangarei  
Sinclair, A., Auckland  
Skeet, W. H., Auckland  
Smith, A. A., Auckland  
Smith, H. G. S., Wellington  
Smith, S. P., F.R.G.S., Wellington  
Smith, T. H., Auckland  
Steel, T., Melbourne  
Stewart, J., C.E., Auckland  
Sylow, P., Chelsea

Thomas, Professor, A.P.W., F.L.S.,  
Auckland  
\*Tinne, H., London  
Tinne, T. F. S., London

Upton, J. H., Auckland  
Urquhart, A. T., Karaka

Vaile, S., Auckland

Wade, H. G., Auckland  
Walsh, Rev. P., Waimate  
Webster, J., Hokianga  
\*Weetman, S., F.R.G.S., New  
Plymouth

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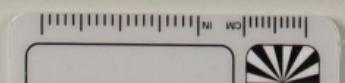
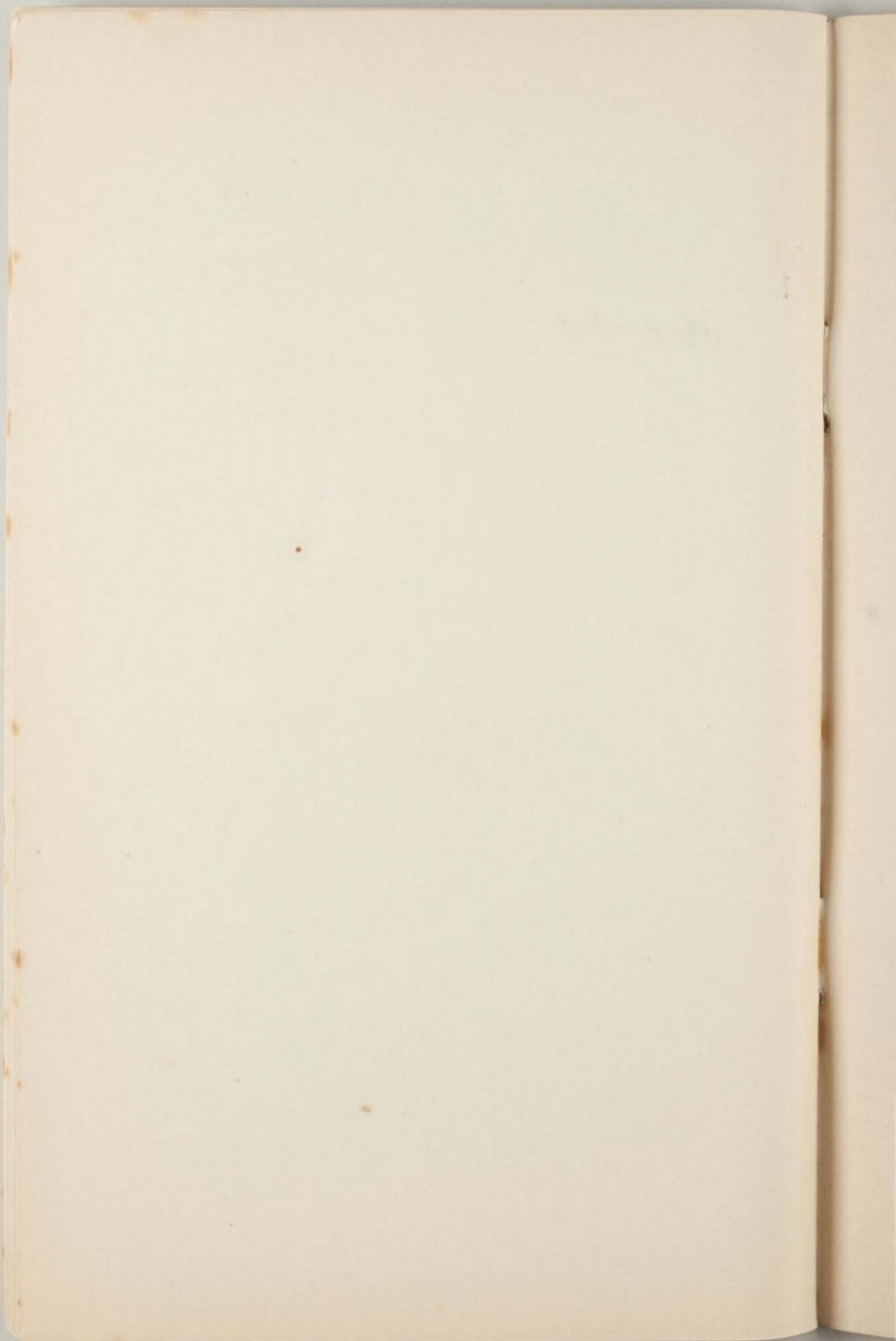
Wildman, W., Auckland  
Will, W., Auckland  
Williams, T. O., M.D., Thame  
Williams, Ven. Archdeacon W. L.,  
Gisborne  
Williamson, C., Auckland

Wilson, H. M., Warkworth  
Wilson, W. S., Auckland  
Winks, J., Parnell  
\*Withy, E., Remuera  
Worthington, H., Auckland  
Wright, G. W., Auckland

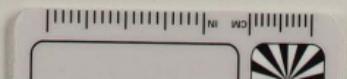
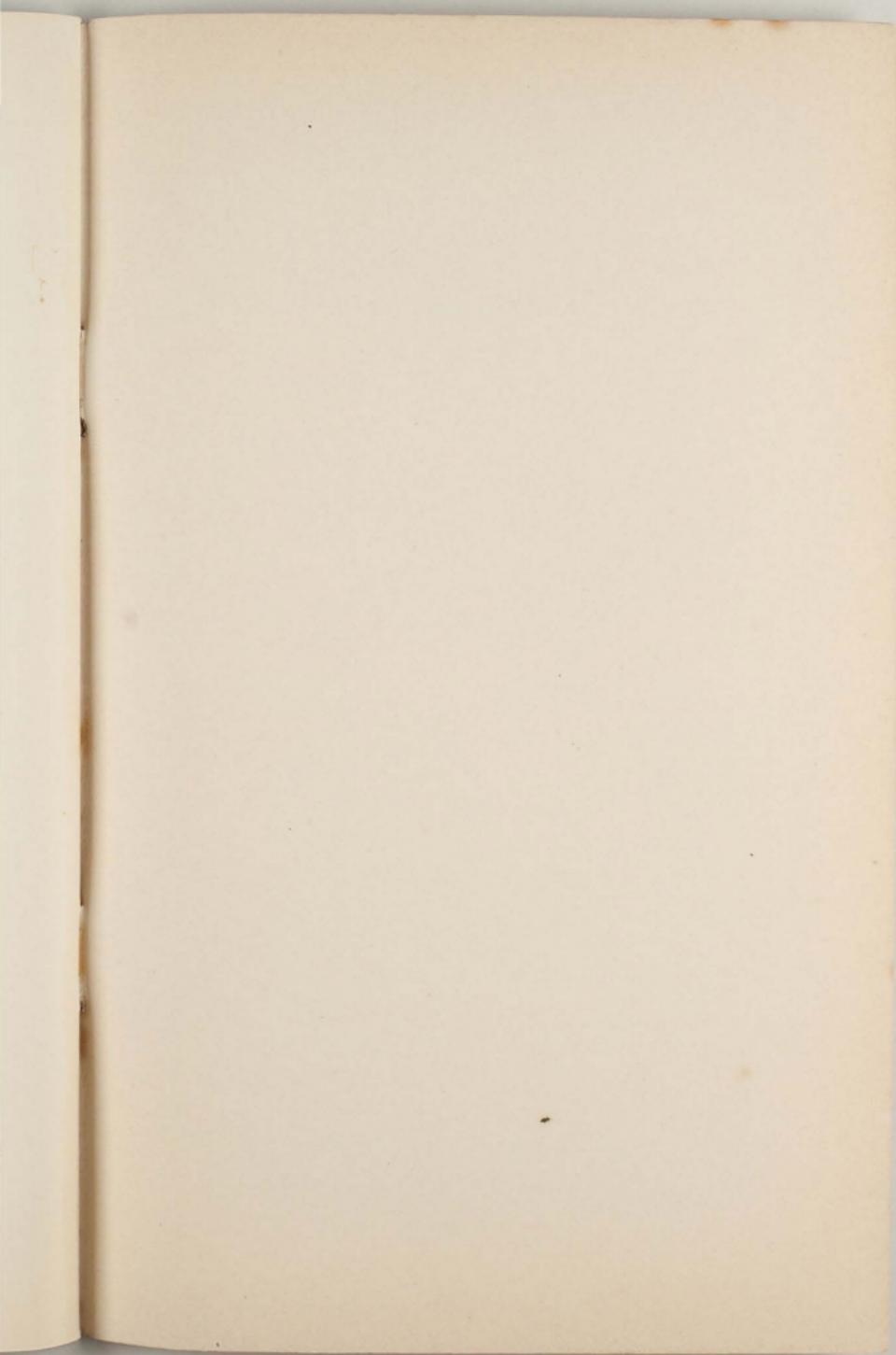
*State I.I.*



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